

PHASE I REPORT

COPY

**ENGINEERING INVESTIGATIONS
AND EVALUATIONS AT
INACTIVE HAZARDOUS WASTE DISPOSAL SITES**

Crouse Hinds
Onondaga County, NY

SUBMITTED TO

*New York State
Department of
Environmental Conservation*

SUBMITTED BY

ENGINEERING-SCIENCE, INC.
in association with
DAMES & MOORE

JUNE 1983

355383



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SECTION I

EXECUTIVE SUMMARY

Crouse-HindsObjective

The purpose of this two phase program is to conduct engineering investigations and evaluations at inactive hazardous waste disposal sites in New York State in order to calculate a Hazard Ranking System (HRS) score for each site and estimate the cost of any recommended remedial action. During the initial portion of this investigation (Phase I) all available data and records combined with information collected from a site inspection were reviewed and evaluated to determine the adequacy of existing information for calculating an HRS score. On the basis of this evaluation, a Phase II Work Plan was prepared for collecting additional HRS data (if necessary), evaluating remedial alternatives and preparing a cost estimate for recommended remedial action. The results of the Phase I study for this site are summarized below and detailed in the body of the report.

Site Background

at of 1983

The site consists of two adjacent landfills in the Town of Salina, Onondaga County, New York. The sites are located a short distance to the north west of Crouse-Hinds Wolf and Seventh North Street Manufacturing facility. The South landfill consists of 15 acres and has been inactive since 1969. It was used to dispose of both industrial and municipal wastes. The North landfill is still active and has been predominately used for industrial wastes. The surrounding area consists primarily of wet lands which have been extensively used as landfills. Extensive monitoring of the North landfill has determined that phenols, cyanides, benzene, toluene and xylene are leaching into the groundwater. Monitoring at the South landfill has detected low levels of cyanides.

Assessment

Insufficient information is available to complete a final HRS scoring. The preliminary HRS scoring for this site was:

$$S_M = 10.51$$

$$S_{GW} = 0$$

$$S_{SW} = 18.18$$

$$S_A = 0$$

$$S_{FE} = 0$$

$$S_{DC} = 0$$

The surface water route scored high on this site due to the large target scoring. Additional target information is required for the groundwater route. Sufficient ground and surface water data is available for scoring, however an air sample is required.

Recommendations

The following recommendations are made for the completion of Phase II:

- air monitoring survey to determine air quality

The estimated manhour requirements for Phase II are 193, while the estimated cost is \$7,916.

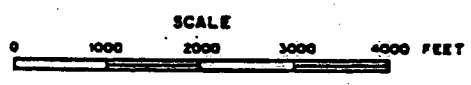
SECTION II

SITE DESCRIPTION

Crouse-Hinds

This site consists of two adjacent landfills in the town of Salina, Onondaga County, New York. The sites are located a short distance to the northwest of Crouse-Hind's Wolf and Seventh North Street electrical products manufacturing facilities in Syracuse, and is separated from them by a Conrail right-of-way. The surrounding area is zoned for industrial use but consists primarily of wetlands which have been extensively utilized as landfills.

The South landfill covers approximately 15 acres of land and has been inactive since 1969. The North landfill consisting of 21 acres is currently active. Extensive groundwater monitoring of the landfills have determined the presence of organic (phenols, benzene, toluene) and inorganic (cadmium, cyanide, chromium) containments in the North landfill area.



SITE LOCATION MAP
CROUSE HINDS

REFERENCE: U.S.G.S. 7.5' TOPOGRAPHIC MAP.
SYRACUSE WEST, NY (1978) QUADRANGLE

SECTION III

HRS SCORING

HRS COVER SHEET

Facility name: Crouse-Hinds

Location: 7th North St., Syracuse, NY

EPA Region: II

Person(s) in charge of the facility: Mr. Patrick Vassallo

VP Manufacturing

Crouse-Hinds, Syracuse, NY

Name of Reviewer: John Kubarewicz/Eileen Gillian

Date: May 19, 1983

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Industrial landfill surrounded by municipal landfills. Preliminary finding

indicate possible presence of phenols, benzene, toluene, and chloroform in groundwater.

Scores: $S_M = 10.51$ ($S_{SW} = 0$ $S_{SW} = 18.18$ $S_a = 0$)

$S_{FE} = 0$

$S_{DC} = 0$

GROUND WATER ROUTE WORK SHEET

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
[1] Observed Release	0 (45)	1	45	45	3.1	
If observed release is given a score of 45, proceed to line [4] . If observed release is given a score of 0, proceed to line [2] .						
[2] Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 3	2		6	(3)	
Net Precipitation	0 1 2 3	1		3		
Permeability of the Unsaturated Zone	0 1 2 3	1		3		
Physical State	0 1 2 3	1		3		
Total Route Characteristics Score				15		
[3] Containment	0 1 2 3	1		3	3.3	
[4] Waste Characteristics					3.4	
Toxicity / Persistence	0 3 6 9 12 15 (18)	1	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)	1	8	8		
Total Waste Characteristics Score			26	26		
[5] Targets					3.5	
Ground Water Use	(0) 1 2 3	3	0	9		
Distance to Nearest Well / Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 36 40	1	0	40		
Total Targets Score			0	49		
[6] If line [1] is 45, multiply [1] x [3] x [5] If line [1] is 0, multiply [2] x [3] x [4] x [5]			0	57.330		
[7] Divide line [6] by 57.330 and multiply by 100			$S_{gw} = 0.00$			

AIR ROUTE WORK SHEET

Air Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the $S_2 = 0$. Enter on line 5 . If line 1 is 45, then proceed to line 2 .					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					5.3
Population Within 4-Mile Radius	{ 0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100				$S_2 = \bigcirc$	

Fire and Explosion Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100					

June 23, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME:

CROUSE-HINDS

LOCATION:

SYRACUSE, NY

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

40

Mean annual lake or seasonal evaporation (list months for seasonal):

27

Net precipitation (subtract the above figures):

13

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

SOLID + LIQUID + SLUDGE

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

UNKNOWN

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

N/A

Distance to above well or building:

N/A

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

0

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

0

Total population served by ground water within a 3-mile radius:

0

Is the facility completely surrounded by areas of higher elevation?

NO

1-Year 24-Hour Rainfall in Inches

2.2

Distance to Nearest Downslope Surface Water

0.11

Physical State of Waste

LIQUID

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

UNCONTAINED

Method with highest score:

Is there tidal influence?

NO

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

0.1

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

UNKNOWN

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

NONE

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

NONE DETECTED

Date and location of detection of contaminants

N/A

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

N/A

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

N/A

Most incompatible pair of compounds:

N/A

Distance to critical habitat of an endangered species, if 1 mile or less:

UNKNOWN

Land Use

Distance to commercial/industrial area, if 1 mile or less:

0

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

3.5

Distance to residential area, if 2 miles or less:

UNKNOWN

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

N/A



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART I - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
NY D980641526

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) CROUSE HINDS	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER NORTH + SOUTH LANDFILL SITES			
03 CITY SYRACUSE	04 STATE NY	05 ZIP CODE 13221	06 COUNTY ONONDAGA	07 COUNTY CODE 67
08 COORDINATES LATITUDE 43° 04' 38.1" LONGITUDE 76° 10' 13.0"		09 TYPE OF OWNERSHIP (check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN		

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 4 26 83 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE	03 YEARS OF OPERATION 1950'S PRESENT BEGINNING YEAR ENDING YEAR	NORTH 1950- SOUTH 1960-1969
04 AGENCY PERFORMING INSPECTION (check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input checked="" type="checkbox"/> F. STATE CONTRACTOR ES DEM <input type="checkbox"/> G. OTHER			

05 CHIEF INSPECTOR John Kubarewicz	06 TITLE PROJ ENGINEER	07 ORGANIZATION ES	08 TELEPHONE NO. (709) 591-7575
09 OTHER INSPECTORS ART SEANOR	10 TITLE GEOLOGIST	11 ORGANIZATION D+M	12 TELEPHONE NO. (315) 632-2572
			()
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED TIM STONE	14 TITLE FACILITY MANAGER	15 ADDRESS SYRACUSE CROUSE-HINDS	16 TELEPHONE NO. (315) 477-5373
DAVE RANKAINEN	ENGINEER FACILITY	" "	(315) 477-5373
			()
			()
			()
			()

17 ACCESS GAINED BY <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 14:30	19 WEATHER CONDITIONS CLEAR SUNNY
---	---------------------------------------	---

IV. INFORMATION AVAILABLE FROM

01 CONTACT John Kubarewicz	02 OF (Agency/Organization) ES	03 TELEPHONE NO. (709) 591-7575
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM SAME	05 AGENCY	06 ORGANIZATION
		07 TELEPHONE NO.
		08 DATE 5 6 83 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3- DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE & ZIP CODE NUMBER
NY 0980 441524

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

GROUND WATER SAMPLES TAKEN ON NORTH LANDFILL SITE SHOW
LOW LEVELS OF PHENOLS (.013-.065 PPM), CYANIDES ALSO LOW
.009-.021 PPM

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

SAMPLES IN LEY CREEK ADJACENT TO NORTH LANDFILL HAVE
LOW CONCENTRATIONS OF CYANIDES, ZINC, CHROMIUM

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

NONE APPARENT

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

LANDFILL WORKERS

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

NOT TESTED

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

UNKNOWN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
NY 0980641526

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPOES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPOC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify) 360	APPLIED	—	—	APPLIED FOR PERMIT 4/5/82
<input type="checkbox"/> H. LOCAL (Specify)				WITHDREW APPLICATION
<input type="checkbox"/> I. OTHER (Specify)				3/10/82
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	UNKNOWN		<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	15-5
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	22-N
<input type="checkbox"/> I. OTHER (Specify)			NONE	

07 COMMENTS

TWO SITES, NORTH SITE IS AN ACTIVE LANDFILL.
SOUTH SITE IS CLOSED. (USED FOR BOTH INDUSTRIAL AND MUNICIPAL.)

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DRUMS, LINERS, BARRIERS, ETC.

LANDFILL

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

FENCE GATE TO BLOCK VEHICLE ENTRY,
OTHERWISE OPEN SECURITY CHECKS PERIODICALLY

VI. SOURCES OF INFORMATION (Check specific references, e.g., state files, company records, etc.)

SITE INSPECTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE/DC SITE NUMBER
NY 0980641526

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-2} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-2} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

780 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

0 (ft)

05 SOIL pH

06 NET PRECIPITATION

8 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.2 (in)

08 SLOPE
SITE SLOPE

7.1 %

DIRECTION OF SITE SLOPE

SE

TERRAIN AVERAGE SLOPE

2.5 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (if any)

ESTUARINE

A. (mi)

OTHER

B. 0.1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

ENDANGERED SPECIES:

0.1 (mi)
PEREGRINE FALCON
GOLDEN EAGLE

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0 (mi)

RESIDENTIAL AREAS: NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

(ONONDAGA PARK)

B. 3.5 (mi)

PRIME AG LAND

C. (mi)

AGRICULTURAL LANDS

AG LAND

D. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SITE IS ON GENERALLY FLAT AREA ADJACENT
AND SOUTH OF LEY CREEK (ON FLOOD PLAIN)

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, aerial photos, reports)

USGS



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

L IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0980041526

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME CROUSE - HINDS		02 D+8 NUMBER		05 NAME COOPER INDUSTRIES		06 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) WOLF ST		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.) FIRST CITY TOWER		11 SIC CODE	
08 CITY SYRACUSE		06 STATE 07 ZIP CODE NY 13221		12 CITY HOUSTON		13 STATE 14 ZIP CODE TX 77210	
01 NAME		02 D+8 NUMBER		05 NAME		06 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D+8 NUMBER		05 NAME		06 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D+8 NUMBER		05 NAME		06 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D+8 NUMBER		05 NAME		06 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
III. PREVIOUS OWNERS (List most recent first)				IV. REALTY OWNER(S) (if applicable: see most recent first)			
01 NAME		02 D+8 NUMBER		01 NAME		02 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		08 CITY		06 STATE 07 ZIP CODE	
01 NAME		02 D+8 NUMBER		01 NAME		02 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		08 CITY		06 STATE 07 ZIP CODE	
01 NAME		02 D+8 NUMBER		01 NAME		02 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
08 CITY		06 STATE 07 ZIP CODE		08 CITY		06 STATE 07 ZIP CODE	
V. SOURCES OF INFORMATION (List specific references, e.g., state files, sample analysis, reports)							
NYS Tax Records							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION
01 STATE OF SITE: **NY**
02 SITE NAME: **09000150**
03 DATE: **12-11-81**

II. ON-SITE GENERATOR

01 NAME SAME	02 D+S NUMBER
03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME CITY SYRACUSE	02 D+S NUMBER	01 NAME	02 D+S NUMBER
03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE
05 CITY SYRACUSE	06 STATE 07 ZIP CODE NY	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+S NUMBER	01 NAME	02 D+S NUMBER
03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+S NUMBER	01 NAME	02 D+S NUMBER
03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+S NUMBER	01 NAME	02 D+S NUMBER
03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, APO #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (List specific references, e.g., state files, company records)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0980041526

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

PRIVATE PROPERTY

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

NO

01 ☒ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE 1981

03 AGENCY

1981 THREE GROUND WATER WELLS INSTALLED 6 SETS
OF ANALYSIS OF WATER AND SOIL. (SOUTH LANDFILL)
1983 - NORTH LANDFILL - STUDIES UNDERWAY FOR
LEACHATE EVALUATION

III. SOURCES OF INFORMATION (Cite specific references, e.g., ARA, EPA, SOURCE OPERATOR, RESIDENT)

SAME AS PART 3



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE/02 SITE NUMBER
NY 0980641526

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) CROUSE-HINDS COMPANY		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER WOLF + 7 NORTH ST	
03 CITY SYRACUSE	04 STATE NY	05 ZIP CODE 13221	06 COUNTY ONONDAGA
08 COORDINATES LATITUDE 43° 24' 22.1"		LONGITUDE 76° 10' 13.0"	
10 DIRECTIONS TO SITE (Starting from nearest public road) SOUTH OF NEW YORK THRU WAY OFF 7TH NORTH STREET			

III. RESPONSIBLE PARTIES

01 OWNER (if known) COOPER INDUSTRIES		02 STREET (Business, mailing, residential) FIRST CITY TOWER, SUITE 4000	
03 CITY HOUSTON	04 STATE TX	05 ZIP CODE	06 TELEPHONE NUMBER 1-713-739-3400
07 OPERATOR (if known and different from owner) CROUSE-HINDS COM		08 STREET (Business, mailing, residential) WOLF ST	
09 CITY SYRACUSE	10 STATE NY	11 ZIP CODE 13221	12 TELEPHONE NUMBER 1-315-477-5930
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (RCRA 105) DATE RECEIVED: MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 4 26 83 <input type="checkbox"/> NO		02 BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER	
CONTRACTOR NAME(S): Engineering Sciences, Dames & Moore			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1950s	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED PHENOLS CHROMIUM BENZENE CYANIDES ZINC TOLUENE CADMIUM CHLOROFORM			

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
POSSIBLE LEACHING OF MATERIALS INTO LEY CREEK GROUND WATER AND WATER SAMPLING INDICATE LOW LEVELS

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current inspection form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT John Kubarewicz		02 OF Agency/Organization ES		03 TELEPHONE NUMBER 1-283-1-7575	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER ()	08 DATE 5-18-93



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 0980641526

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

NONE APPARENT

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

NONE APPARENT

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

IN SURFACE WATER BODIES

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Include names of materials and containers)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

NONE OBSERVED

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

NONE OBSERVED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (City reports, references, etc., used for this assessment)

CALOCERINOS + SPINA, 1981, ENGINEERING REPORT AND PLAN
OF OPERATION ACCOMPANYING APPLICATION FOR PERMIT

SECTION IV

SITE HISTORY

Crouse-Hinds

The company operated the South landfill from 1960 to 1969. It received a combination of municipal waste from the city of Syracuse (1961-1964) and industrial waste which consisted of foundry mold and core sand, scrap steel drums and shot, fly ash, paint scrapings, garbage and construction-demolition materials. The site was closed and covered in 1969. During 1981, consultants under contract to Crouse-Hinds installed three groundwater monitoring wells. Both groundwater quality analysis and soil analysis were determined (Calocerinos & Spina Consulting Engineers, 1981).

PCBs
↓

The North landfill is still active. It was used from mid 1950 through 1972 for small quantities of solid wastes consisting primarily of foundry sand. In 1972, Crouse-Hinds decided to use the landfill for all non-putrescible solid wastes. These wastes consisted of foundry sand, floor sweepings, metal buffing and polishing residue, scrap lumber, plastics wastes, and paint scrapings. In addition zinc hydroxide sludge was deposited from 1972 to 1980. At the current time solid waste consists primarily of construction materials; the disposal of zinc hydroxide sludge and plastic wastes has been discontinued.

In April of 1981, Crouse-Hinds applied for a 360 permit to operate a non-hazardous landfill. Their application was withdrawn on March 10, 1982. As part of the 360 application, Crouse-Hinds initiated a groundwater monitoring program which included the installation of wells. A report (Calocerinos & Spina Consulting Engineers, 1981b) was prepared to provide additional information required by the State as part of the permitting process. This report included ground and surface water monitoring data which indicated that the groundwater had been contaminated by phenols. Subsequent studies (Thomsen Associates and Empire Soils Investigations, 1982 and 1983) have indicated the possible presence of toluene, benzene, and chloroform.

SECTION V

SUMMARY OF AVAILABLE DATA

Crouse-Hinds

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region consists of sedimentary rocks of varying lithologies. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened preexisting valleys and deposited widespread accumulations of till. In addition, distinct drumlin fields were formed in many parts of the region. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited locally thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario) and from Lake Tonawanda (an elongate lake which occupied an east-west valley and drained north into Lake Iroquois). The sediments consist of blanket silts, sand and beach ridges, which are occasionally underlain by lacustrine silts and clays (indicating quiet, deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

Site Geology

The site geology is known from several hydrogeological investigations, which included on-site borings and well installations. Bedrock beneath the site is thought to occur at a depth of approximately 100 feet. It is probably Vernon Shale (Salina Group), weathered on the bedrock surface. Overlying the bedrock surface are sand and gravel layers, to a depth of approximately 50 feet. Above this depth, the soils become silty sands, silts, and clays. A peat layer is located at approximately 15 feet below the ground surface. Above the peat is a varying amount of fill.

→ Confining layer?
need hydraulic conductivity test?

Site Hydrology

Site groundwater hydrology has been studied for the past several years. The following summary is based on a recent (1983) hydrogeological investigation. There appear to be two aquifers within the site soils. The shallow aquifer occurs within the fill material at a depth varying from 4 feet to 8 feet. Flow roughly follows the ground surface contours: south and northwest. A lower aquifer exists in the deep sands and gravels. This aquifer may be hydraulically connected to the shale bedrock. Flow in the lower aquifer is toward the northwest. Two sets of potentiometric surface measurements have been recorded, showing approximately a 12-foot lowering of the surface between December 1982 and February 1983, and a significant increase in flow gradient during the same period. This change may be a normal seasonal occurrence.

Sampling and Analysis

Both surface and groundwater analytical data are available for the North Landfill. Figure V-1 shows sampling locations for a study conducted in 1981 as part of an application for a landfilling permit (Calocerinos and Spina, 1981a). Table V-1 summarizes analytical results of the sampling. As shown, both cyanide and phenols were detected in low concentrations in groundwater and Ley Creek. Additional monitoring wells were installed in 1983 (Rinaldo-Lee, 1983). The location of these wells is shown in Figure V-2, while the analytical results are shown in Table V-2. Benzene, toluene, and xylene were found in concentrations

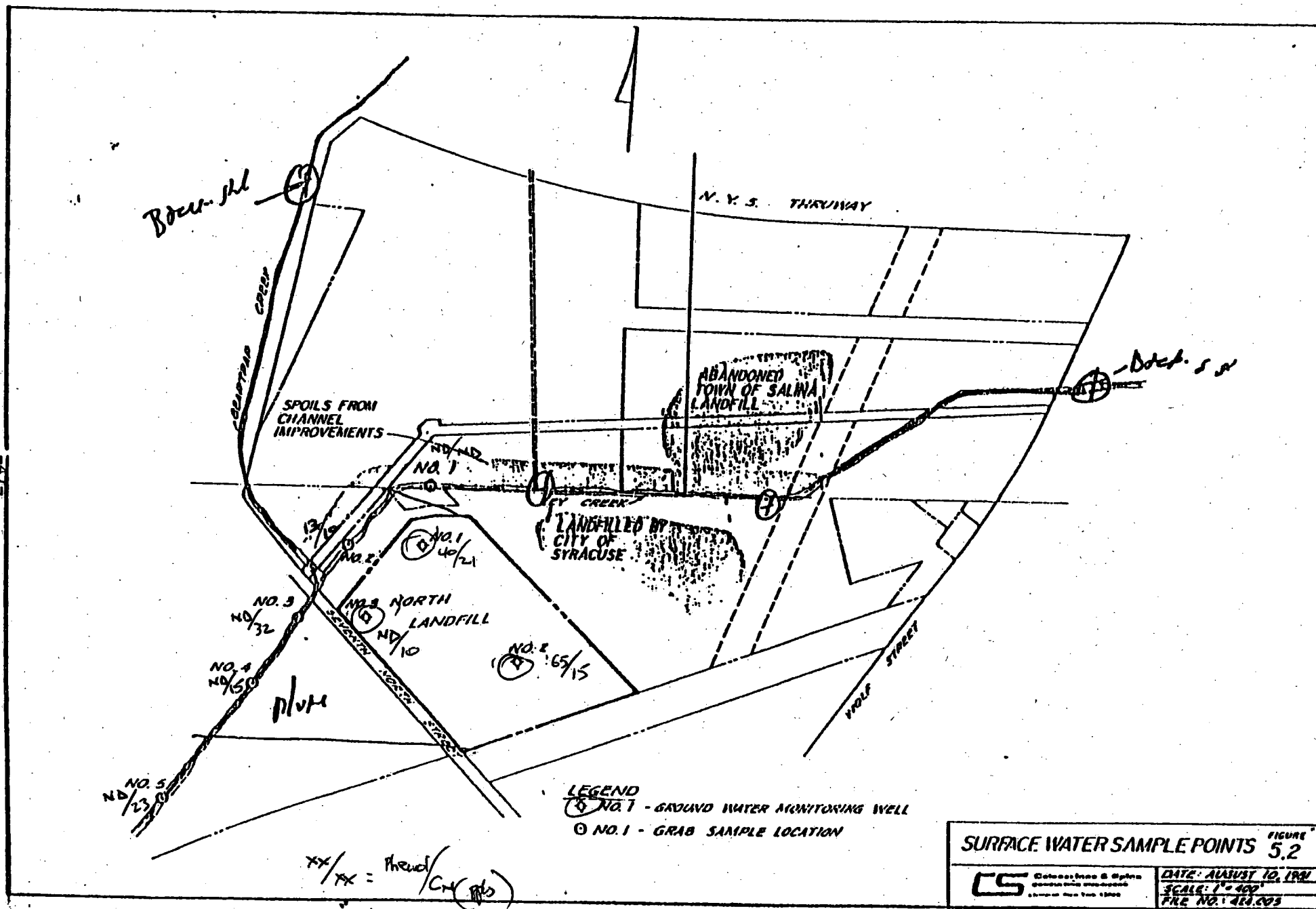


FIGURE V-1 SAMPLING POINTS -- CROUSE-HINDS NORTH LANDFILL (Calcoerinos & Spina, 1981)

TABLE V-1

SUMMARY OF ANALYTICAL DATA CROUSE-HINDS NORTH LANDFILL
(Calocerinos & Spina, 1981)

Sample Date	Sampling Location	Phenol (ppm)	Cyanide (ppm)
2/11/82 ¹	Well 1	BDL*	--
	2	0.039	--
	3	BDL	--
7/2/81	Well 1	0.040	0.010
	2	0.065	0.012
	3	BDL	0.009
7/21/81	Well 1	0.016	0.021
	2	0.030	0.015
	3	BDL	0.010
8/5/81	Well 1	BDL	0.009
	2	0.016	0.009
	3	BDL	0.005
7/8/81	Stream 1	BDL	BDL
	2	BDL	0.007
	3	BDL	0.010
	4	BDL	0.009
	5	BDL	0.013
	Stream 1	BDL	0.013
	2	.013	0.010
	3	BDL	0.032
	4	BDL	0.015
	5	BDL	0.023

* Below Detectable Limit

¹ Crouse-Hinds DEC Meeting 2/23/82

FIGURE V-2 SAMPLING LOCATIONS CROUSE HINDS NORTH LANDFILL (Rinaldo-Lee, 1983)

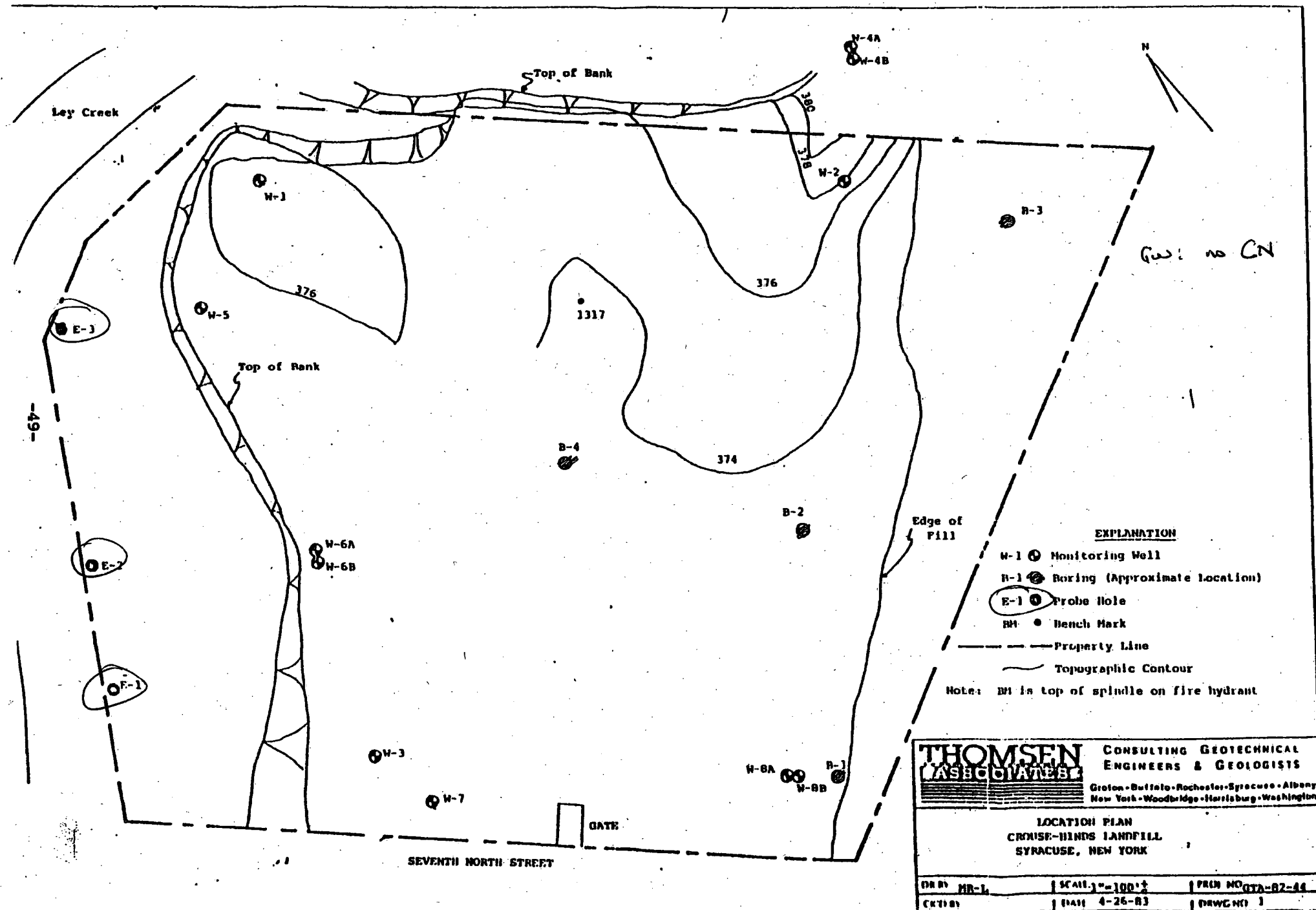


TABLE V-2
SUMMARY OF CHEMICAL ANALYSIS NORTH LANDFILL

	Well	Date	pH	Conductance umhos	Phenol mg/l	Fe mg/l	Mn mg/l	Cyanide mg/l	Oil & Grease mg/l	Benzene ug/l	Toluene ug/l	Xylene ug/l	Total BTX ug/l	Other
SHALLOW WELLS	4A	12-27-82	7.8	5100	0.019	0.54	0.15	<0.004	-	4.0	1.0	36.0	41	*
		3-16-83	8.0	4900	0.025	3.7	0.1	-	3.4	12	6	136	154	-
	1	12-27-82	7.2	2650	<0.01	4.0	0.36	<0.004	-	4.0	4.0	20.0	24	*
		3-16-83	7.9	3000	0.04	27	0.2	-	21.9	9	5	92	106	-
	2	12-27-82	8.0	3750	<0.01	7.8	0.09	<0.004	-	210	33	<10	243	*
		3-16-83	7.7	3500	0.032	25.6	0.16	-	3.3	7	5	270	282	-
	3	12-27-82	7.1	4500	0.011	0.73	0.38	<0.004	-	220	<10	<10	220	*
		3-16-83	7.9	4000	<0.01	3.3	0.27	-	1.5	5	5	5	15	-
	6A	12-27-82	7.3	1550	0.213	0.15	0.15	<0.004	-	14	32	<10	46	*
		3-16-83	8.0	1380	0.262	7.0	0.19	-	4.3	15	28	50	93	-
	8A	12-27-82	8.5	2200	0.253	0.10	<0.01	<0.004	-	<1.0	<1.0	<1.0	<1.0	-
		3-16-83	8.1	860	0.12	0.29	0.01	-	-	-	-	-	-	-
DEEP WELLS	4B	12-27-82	7.1	1500	<0.01	0.09	<0.01	<0.004	-	6.0	1.0	<1.0	7.0	-
		3-16-83	8.1	1250	<0.01	0.07	0.01	-	3.3	5	5	5	15	-
	5	12-27-82	7.2	910	<0.01	0.02	<0.01	<0.004	-	<1.0	<1.0	<1.0	<1.0	-
		3-16-83	8.0	1180	<0.01	<0.01	0.03	-	-	-	-	-	-	-
	6B	12-27-82	7.3	3500	<0.01	0.07	<0.01	<0.004	-	<1.0	<1.0	<1.0	<1.0	-
		3-16-83	7.9	520	<0.01	0.13	0.02	-	2.0	5	5	5	15	-
	7	12-27-82	7.0	5400	<0.01	0.34	0.02	<0.004	-	<1.0	<1.0	<1.0	<1.0	-
		3-16-83	8.0	4600	0.027	0.11	0.04	-	-	-	-	-	-	-
	8B	12-27-82	7.1	8100	<0.01	0.32	0.07	<0.004	-	<1.0	<1.0	<1.0	<1.0	-
		3-16-83	7.1	6500	0.167	0.04	0.06	-	-	-	-	-	-	-

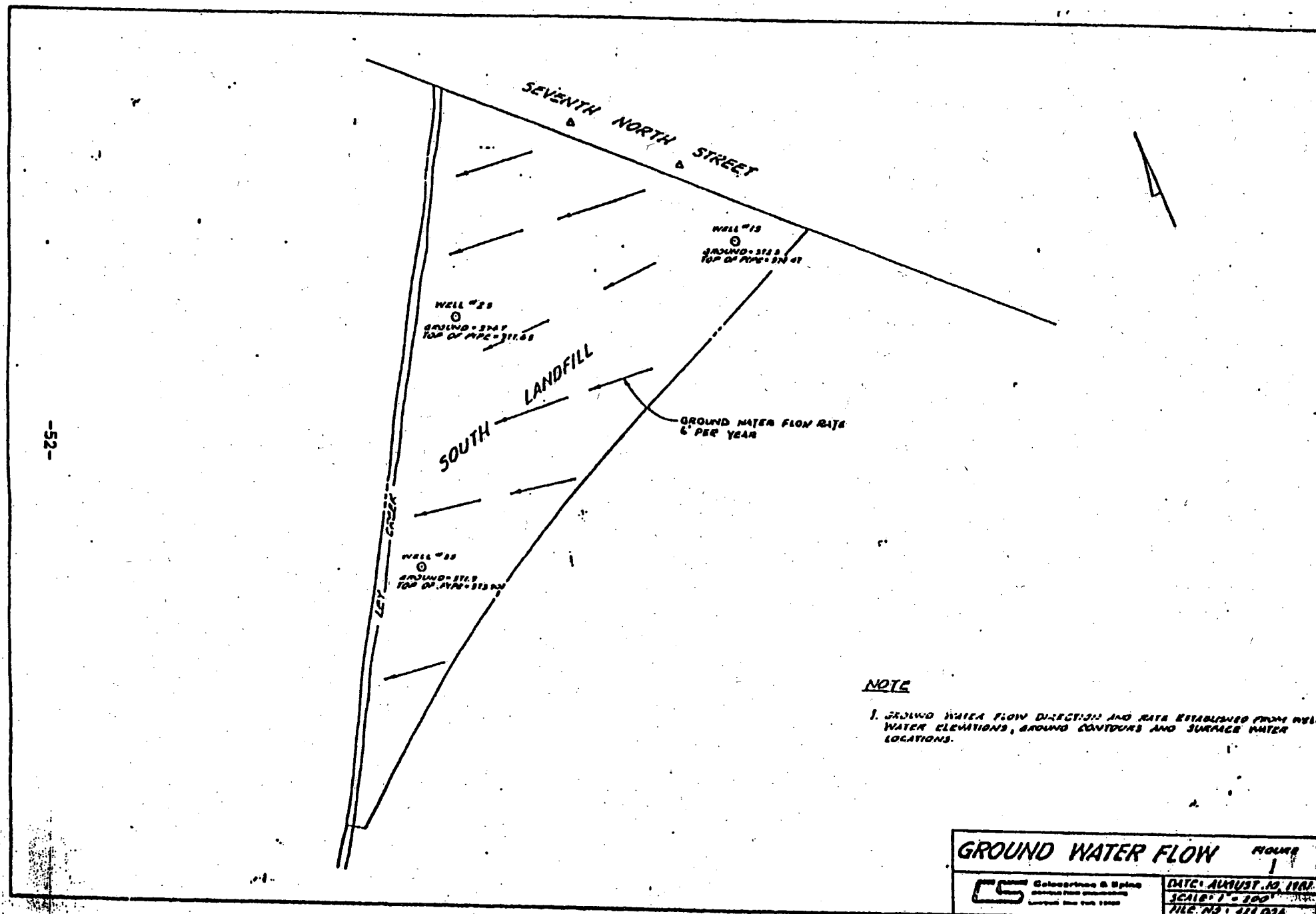
-not analyzed

*Chlorobenze suspected

ranging from 1 to 282 ppb. The highest concentrations of these parameters were found in the shallow wells. This study is still in progress and preliminary results have also indicated the presence of chloroform (Scott, 1983).

Soil and groundwater analyses are also available for the South Landfill (Calocerinos and Spina, 1981b). Well locations are shown on Figure V-3. Complete groundwater analyses for 1981 are included in Appendix A. Cyanides ranging in concentration from 0.007-0.015 ppm and total organic carbon ranging from 15-60 ppm were detected.

FIGURE V-3 SAMPLING LOCATIONS CROUSE-HINDS SOUTH LANDFILL



SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

Site: Crouse Hinds

HRS Data Requirement	Comments on Data
Observed Release	
Ground Water	Data available, adequate for HRS evaluation.
Surface Water	Data available, adequate for HRS evaluation.
Air	No available data, field data collection recommended.
Route Characteristics	
Ground Water	Data available, adequate for HRS evaluation.
Surface Water	Data available, adequate for HRS evaluation.
Air	Data available, adequate for HRS evaluation.
Containment	Information available, adequate for HRS evaluation.
Waste Characteristics	Information available, adequate for HRS evaluation.
Targets	Insufficient information, more ground water target data collection recommended.
Observed Incident	Information available revealed no report of incident. No further investigation recommended.
Accessibility	Adequate information available.

SECTION VII

PHASE II WORK PLAN

Site: Crouse Hinds

Objectives

The objectives of the Phase II activities are:

- o To collect additional field data necessary to complete the HRS scoring.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- o To prepare a site investigation report.

The additional field data required to complete the HRS are defined as follows:

Air - An air monitoring survey with an OVA meter is recommended to check the air quality above the surface of the site.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VII-1.

COST ESTIMATE

The estimated manhours required for the Phase II project are presented in Table VII-2 and the estimated project costs by tasks are presented in Table VII-3. The cost for performing the Phase II project is \$7,916.

TABLE VII-1
PHASE II WORK PLAN - TASK DESCRIPTION
Site: Crouse Hinds

Tasks	Description of Task
TASK	
II-A Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B Conduct Geophysical studies	No further studies necessary.
II-C Conduct Boring/Install Install Monitoring Wells	No further installation of monitoring wells necessary
II-D Construct Test Pits/ Auger Holes	No further construction of test pits/auger holes necessary.
II-E Perform Sampling and Analysis	<p>Soil samples from borings No further sampling necessary.</p> <p>Soil samples from surface soils No further sampling necessary.</p> <p>Soil samples from test pits and auger holes No further sampling necessary.</p> <p>Sediment samples from surface water No further sampling necessary.</p> <p>Ground-water samples No further sampling necessary.</p> <p>Surface water samples No further sampling necessary.</p> <p>Air samples Using the OVA, determine the presence of organics.</p> <p>Waste samples No further sampling necessary.</p>
II-F Calculate Final HRS	Based on the field data collected in Tasks IIB - IIE, complete the HRS form.
II-G Conduct Site Assessment	Prepare final report containing Phase I report, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H Project Management	Project coordination, administration and reporting.

TABLE VII-2
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: CROUSE HINDS)

TASK DESCRIPTION	TEAM MEMBERS, HOURS													SS	TOTAL HOURS	TOTAL \$
	PIC	TRD	PH	DPH	PCB	DM	BSM	FTL	FT	RAAL	RAAT					
II-A UPDATE WORK PLAN	1		4	1			1	2		6			8	23	376.0	
II-B CONDUCT GEOPHYSICAL STUDIES														0	0	
II-C CONDUCT BORING/INSTALL MONITORING WELLS														0	0	
II-D CONSTRUCT TEST PITS/AUGER HOLES														0	0	
II-E PERFORM SAMPLING AND ANALYSIS																
SOIL SAMPLES FROM BORINGS														0	0	
SOIL SAMPLES FROM SURFACE SOILS														0	0	
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES														0	0	
SEDIMENT SAMPLES FROM SURFACE WATER														0	0	
GROUND-WATER SAMPLES														0	0	
SURFACE WATER SAMPLES														0	0	
AIR SAMPLES			1					1	8				2	12	133.66	
WASTE SAMPLES														0	0	
II-F CALCULATE FINAL HRS			3	3				3	24				16	49	563.23	
II-G CONDUCT SITE ASSESSMENT	1	2	4	2				4	8	6	24		32	83	1029.44	
II-H PROJECT MANAGEMENT	2		6	2		4	4						8	26	442.9	
TOTALS	4	2	18	8	0	4	5	10	40	12	24		66	193	2546.03	

TABLE VII-3
COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: CROUSE HINDS)

TASK DESCRIPTION	OTHER DIRECT COSTS (ODC), \$								SUBTOTAL ODC	TOTAL (\$)
	DIRECT LABOR HOURS	DIRECT LABOR COST	LAD ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCON- TRACTORS	MISC.		
II-A UPDATE WORK PLAN	23	376.8		100	50	50		25	225	601.8
II-B CONDUCT GEOPHYSICAL STUDIES									0	0
II-C CONDUCT BORING/INSTALL MONITORING WELLS									0	0
II-D CONSTRUCT TEST PITS/AUGER HOLES									0	0
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS									0	0
SOIL SAMPLES FROM SURFACE SOILS									0	0
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES									0	0
SEDIMENT SAMPLES FROM SURFACE WATER									0	0
GROUND-WATER SAMPLES									0	0
SURFACE WATER SAMPLES									0	0
AIR SAMPLES	12	133.66		85	25	15		5	130	263.66
WASTE SAMPLES									0	0
II-F CALCULATE FINAL HRS	49	563.23			50	50		25	125	688.23
II-G CONDUCT SITE ASSESSMENT	85	1029.44			100	200		75	375	1404.44
II-H PROJECT MANAGEMENT	26	442.9		150	150	50		50	400	842.9
TOTALS	193	2546.03	0	335	375	365	0	180	1255	3801.03
OVERHEAD -									3635.73	
SUBTOTAL -									7436.76	
FEE -									479.09	
TOTAL PROJECT COST -									7915.85	